

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A turbine component having a plurality of film-cooling holes each formed in a region of the component to be cooled, said cooling holes having a specified uniform diameter, each hole at an exit thereof formed with a concentric counter-bore of a predetermined depth each, said hole and respective counterbore being parallel and connected by a substantially 90° shoulder; said component having a coating applied thereto at least in said region, wherein the counter-bore provides an area for excess coating material to accumulate without reducing the specified diameter.
2. (Original) The turbine component of claim 1 wherein, for a specified diameter of about 0.033 inch, the counter-bore has a diameter of about 0.053 inch.
3. (Original) The turbine component of claim 2 wherein the counter-bore has a depth of about 0.030 inch.
4. (Original) The turbine component of claim 2 wherein said coating comprises a first bondcoat layer and a second thermal barrier coating layer.
5. (Original) The turbine component of claim 4 wherein the bondcoat layer is an NiAl-based material.
6. (Original) The turbine component of claim 5 wherein the thermal barrier coating layer is a yttria stabilized zirconium material.
7. (Original) The turbine component of claim 1 wherein the turbine component comprises a gas turbine bucket having an airfoil portion and a shank portion, and wherein said region comprises the airfoil portion.

8. (Original) The turbine component of claim 7 wherein, for a specified diameter of about 0.033 inch, the counter-bore has a diameter of about 0.053 inch; and wherein the counter-bore has a depth of about 0.030 inch.

9. (Original) The turbine component of claim 7 wherein said coating comprises a first bondcoat layer and a second thermal barrier coating layer; and wherein the bondcoat layer is an NiAl-based material.

10. (Currently Amended) A gas turbine bucket having an airfoil portion and a shank portion, said airfoil portion having a plurality of film-cooling holes therein, each hole having a specified diameter and at an exit thereof formed with a concentric counter-bore of predetermined depth each, said hole and respective counterbore being parallel and connected by a substantially 90° shoulder; said component having a coating applied thereto at least in said region, wherein the counter-bore provides an area for excess coating material to accumulate without reducing the specified diameter; and wherein said coating comprises a first bondcoat layer and a second thermal barrier coating layer.

11. (Original) The gas turbine bucket of claim 10 wherein the bondcoat layer is an NiAl-based material.

12. (Original) The gas turbine bucket of claim 11 wherein the thermal barrier coating layer is a yttria-stabilized zirconium layer.

13. (Currently Amended) A method of maintaining cooling efficiency of film-cooling holes in a turbine component where the film-cooling holes have specified diameters and the turbine component has a protective coating ~~therein~~ thereon comprising:

a) before coating, forming each film-cooling hole with a concentric counter-bore and at an exit end of the film-cooling hole each said hole and respective counterbore being parallel and connected by a substantially 90° shoulder; and

b) spraying the coating onto the turbine component at least in areas surrounding the film-cooling holes such that excess coating material accumulates in the counter-bore without reducing the specified diameters of the cooling holes.